S/HDU Holdowns

The S/HDU series of holdowns combines performance with ease of installation. The pre-deflected geometry virtually eliminates material stretch, resulting in low deflection under load. Installation using self-drilling tapping screws into the studs reduces installation time and saves labor cost.

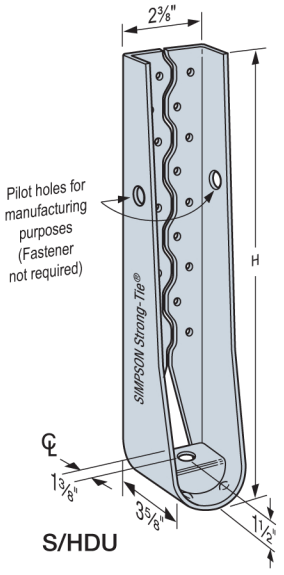
Material: 118 mil (10 ga)

Finish: Galvanized

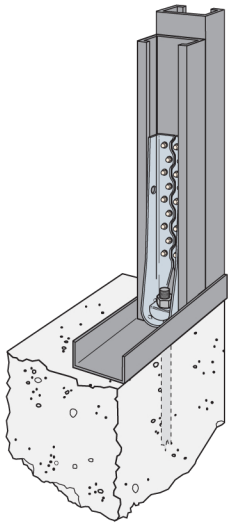
Installation:

- Use all specified fasteners. See General Notes.
- Use standard #14 self-drilling screws to fasten to studs.
- Anchor bolt washer is not required.
- See SB, SSTB and PAB Anchor Bolts on pages 108-113 for cast-in-place anchorage options.
- See SET-XP® and AT-XP® adhesive products for anchor bolt retrofit options.

Codes: See page 11 for Code Report Reference Key Chart.



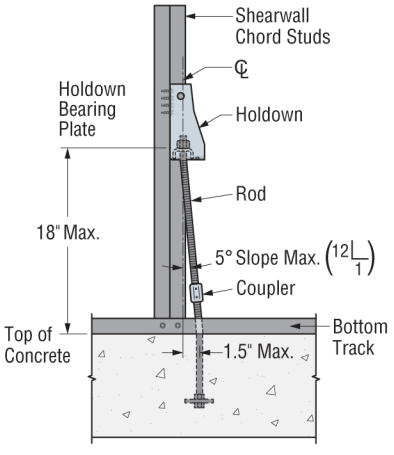
S/HDU


Typical S/HDU Installation

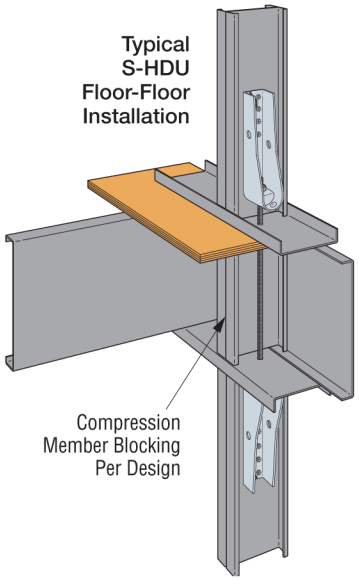
Model	H (in.)	Fasteners: Anchor Bolt Diameter[1] (in.)	Fasteners: Stud Fasteners[7]	Stud Member Thickness[2] mil (ga.)	ASD (lbs.): Tension Load	ASD (lbs.): Deflection at ASD Load[5]	LRFD (lbs.): Tension Load	LRFD (lbs.): Deflection at LRFD Load[5]	Nominal Tension Load[6] (lbs.)	Code Ref.
S/HDU4	7⅞	⅝	6-#14	2-33 (2-20ga)	2320	0.093	3705	0.149	5685	IP1, L2, F4
				2-43 (2-18ga)	3825	0.115	6105	0.190	9365	
				2-54 (2-16ga)	3970	0.093	6345	0.156	9730	
				Steel Fixture	4470	0.063	7165	0.103	12120	
S/HDU6	10⅜	⅝	12-#14	2-33 (2-20ga)	4895	0.125	8495	0.250	10470	
				2-43 (2-18ga)	6125	0.119	9690	0.250	15460	
				2-54 (2-16ga)	6125	0.108	9785	0.234	15005	
				Steel Fixture	5995	0.060	9580	0.136	14695	
S/HDU9	12⅞	⅞	18-#14	2-33 (2-20ga)	6965	0.103	11125	0.189	13165	
				2-43 (2-18ga)	9255	0.125	15485	0.250	21810	
				2-54 (2-16ga)	9990	0.106	15960	0.225	24480	
				Steel Fixture	12715	0.125	20510	0.177	31455	
S/HDU11	16⅝	⅞	27-#14	2-33 (2-20ga)	6965	0.103	11125	0.189	13165	
				2-43 (2-18ga)	9595	0.096	15330	0.162	23515	
				2-54 (2-16ga)	9675	0.110	15460	0.158	23710	
		⅞ with Heavy Hex Nut	27-#14	2-43 (2-18ga)[6]	11100	0.125	17500	0.250	24955	
				2-54 (2-16ga)[6]	12175	0.125	19445	0.243	29825	
				Steel Fixture[6]	12945	0.111	20680	0.163	31715	

These products are available with additional corrosion protection. Additional products on this page may also be available with this option. Check with Simpson Strong-Tie for details.

1. The Designer shall specify the foundation anchor material type, embedment and configuration. Some of the tabulated holdown tension loads exceed the tension strength of typical ASTM A36 or A307 anchor bolts.
2. Stud design by Specifier. Tabulated loads are based on a minimum stud thickness for fastener connection.
3. ¼-inch self-drilling screws may be substituted for #14 self-tapping screws.
4. A heavy hex nut for the anchor bolt is required to achieve the table loads for S/HDU11.
5. Deflection at ASD or LRFD includes fastener slip, holdown deformation and anchor rod elongation for holdowns installed up to 4" above top of concrete. Holdowns may be installed raised, up to 18" above top of concrete, with no load reduction provided that additional elongation of the anchor rod is accounted for.
6. The Nominal Tension Load is based on the tested average ultimate (peak) load and is provided for design in accordance with section C5 of AISI S213 that requires a holdown to have a nominal strength to resist the lesser of the amplified seismic load or the maximum force the system can deliver.
7. See pages 65 through 81 for more information on Simpson Strong-Tie fasteners.



Holdown Raised Off CFS Bottom Track



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